US ERA ARCHIVE DOCUMENT

: DI7 8885 DP Barcode : 109901 PC Code No : 06.05.92 EEB In

EEB Out

: DEC 9 1992

To:

Bruce Sidwell
Product Manager 53

Special Review and Reregistration Division (H7508W)

From: Douglas J. Urban, Acting Chief

Ecological Effects Branch/EFED (H7507C)

Attached, please find the EEB review of...

109901-003125 Reg./File # Triadimeton Chemical Name : Fungicide Type Product Bayleton Product Name Miles Inc. Company Name : Review honey bee acute study Purpose Date Due Action Code 606 Reviewer

GDLN NO	MRID NO	CAT	GDLN NO	MRID NO	CAT	GDLN NO	MRID NO	CAT
71-1(A)			72-2(A)			72-7(A)		-i
71-1(B)			72-2(B)			72-7(B)		
71-2(A)			72-3(A)			122-1(A)		
71-2(B)			72-3(B)			122-1(B)		·
71-3			72-3(C)			122-2		·
71-4(A)			72-3(D)			123-1(A)		
71-4(B)			72-3(E)			123-1(B)		
71-5(A)			72-3(F)			123-2		
71-5(B)			72-4(A)			124-1		
72-1(A)			72-4(B)	<u> 1:,</u>		124-2		
72-1(B)			72-5	1.		141-1	423078-04	<u> Y</u>
72-1(C)			72-6			141-2		
72-1(D)						141-5		

Y=Acceptable (Study satisfied Guideline)/Concur P=Partial (Study partially fulfilled Guideline but

additional information is needed

S=Supplemental (Study provided useful information but Guideline was

not satisfied)

N=Unacceptable (Study was rejected)/Nonconcur

REREG CASE # 2700

DP BARCODE: D178885

CASE: 816353

DATA PACKAGE RECORD

SUBMISSION: S418814

BEAN SHEET

DATE: 06/03/92 Page 1 of 1

* * * CASE/SUBMISSION INFORMATION * * *

CASE TYPE: REREGISTRATION ACTION: 606 DATA PACKAGE REVIEW

CHEMICALS: 109901 Chlorophenoxy) -3,3-dimethyl-1-(1H-1,2,4-triazol-1- 100.00 %

ID#: 109901-003125

COMPANY: 003125 MILES INC.

PRODUCT MANAGER: 53 BRUCE SIDWELL 703-308-8078 ROOM: CS1 3E3
PM TEAM REVIEWER: MARK WILHITE 703-308-8586 ROOM: CS1 3RD FL

RECEIVED DATE: 05/04/92 DUE OUT DATE: 08/02/92

* * * DATA PACKAGE INFORMATION * * *

DP BARCODE: 178885 EXPEDITE: N DATE SENT: 06/03/92 DATE RET.: / / CHEMICAL: 109901 Chlorophenoxy)-3,3-dimethyl-1-(1H-1,2,4-triazol-1-yl)-2-but

DP TYPE: 999 Miscellaneous Data Package

ADMIN DUE DATE: 08/12/92 CSF: N LABEL: N

* * * DATA REVIEW INSTRUCTIONS * * *

Acute contact toxicity in honeybees study (MRID 42307804) [gdln 141-1]. Please review.

* * * ADDITIONAL DATA PACKAGES FOR THIS SUBMISSION * * *

DP BC BRANCH/SECTION DATE OUT DUE BACK INS CSF LABEL 178884 RSCB 06/03/92 08/12/92 Y N N



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

DEC 9 1992

> OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

MEMORANDUM

SUBJECT:

Witz - Thocurand Honey Bee Study with Bayleton-

(D178885)

FROM:

Anthony Maciorowski, Chief

Ecological Effects Branch

Environmental Fate and Effects Division (H7507C)

TO:

Bruce Sidwell, PM 53

Accelerated Reregistration Branch

Special Review and Reregistration Division (H7508W)

EEB has reviewed MRID 423078-04, which was submitted in support of reregistration of Bayleton. Data from this acute contact study indicate that Bayleton is practically nontoxic to honey bees. No further bee testing is required for Bayleton.

Any questions or comments on this memo should be referred to Allen Vaughan at 305-6464.

DATA EVALUATION RECORD

- 1. Chemical: Triadimefon (Bayleton)
- 2. Test Material: Technical, 95.6% ai
- 3. Study Type: Honey bee acute contact LD50

Species tested: Apis mellifera

4. Study ID: Hoxter, K.A., and S.P. Lynn. 1992. Technical BAYLETON: An acute contact toxicity study with the honey bee. Wildlife International Ltd. Project No. 149-168B. Submitted by Miles Incorporated, Kansas City, MO. EPA Acc. No. 423078-04.

5. Reviewed By:

Allen W. Vaughan Entomologist EEB/EFED

Signature: allew W. Vougham

Date: //- 30.92

6. Approved By

Norman J. Cook Supervisory Biologist

Signature: _______

EEB/EFED

7. Conclusions:

This study is scientifically sound, and shows Bayleton to be practically nontoxic to honey bees. In an acute contact test, the LD50 was determined to be greater than 25 micrograms per bee. This study fulfills the guideline requirement for an acute contact toxicity test on honey bees.

- 8. Recommendations: N/A
- 9. Background: This study was submitted in support of reregistration for Bayleton fungicide.
- 10. Discussion of Individual Tests: N/A

11. Materials and Methods:

Apparently healthy worker bees, less than six days of age, were collected from frames incubated in the testing laboratory. Test chambers were rolled paper containers. Each container was covered with a plastic petri dish through which a glass vial containing 50% sugar water was inserted. This food source was available to the test bees throughout the study.

Test photoperiod was eight hours of light per day. Test temperatures ranged from 20 to 24° C.

Five treatment levels, 1.6, 3.1, 6.3, 12.5, and 25 micrograms per bee, were tested along with a solvent control and a negative control. Two replicates were tested at each dosage, with 25 bees per replicate. The solvent control bees received a volume of acetone equal to the largest volume used during the test.

Recently collected bees were immobilized with N_2 to facilitate handling. Each bee was individually dosed with the appropriate test solution. Solvent control bees were dosed with acetone.

Observations on mortality and signs of toxicity were made twice on the day of initiation and once on Day 1 and Day 2 after dosing.

The mortality pattern in this study was not conducive to calculating the LD50 value. An LD50 was estimated by visual inspection of the mortality data.

12. Reported Results:

The study authors found that Bayleton was practically nontoxic to honey bees, with an LD50 greater than 25 ug per bee.

13. Study Authors' Conclusions/ QA Measures

48-hr. LD50 greater than 25 ug per bee (practically nontoxic).

14. Reviewer's Discussion and Interpretation of the Study

A. <u>Test Procedures</u>: Procedures were in accordance with protocols recommended in the guidelines. There were no problems in this regard.

- B. <u>Statistical Analysis</u>: Due to the nature of the data, no analysis was conducted.
- C. <u>Discussion/Results</u>: Bayleton is practically nontoxic to honey bees.
- D. Adequacy of Study:
 - 1. Classification: Core
 - 2. Rationale: Guidelines protocol
 - 3. Reparability: N/A

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- 15. Completion of One-Liner for Study: N/A
- 16. CBI Appendix: N/A